



ATTACHMENT B
Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

THE EMBODIMENTS OF THE INVENTION IN WHICH AN EXCLUSIVE PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS FOLLOWS:

1. (Currently Amended) An apparatus for the ultrasonic treatment of a microbiology contaminated liquid comprising, a module having a treatment container and an ultrasonic generating means for subjecting ultrasonic vibrations on liquid in the container whereby contaminated liquid in the container subjected to the ultrasonic vibrations result in cavitation in that liquid and the destruction of microorganisms contained therein, the ultrasonic generating means being located outside of the container and submerged in a transmission fluid in an outer container, which fluid contacts an outside surface of the treatment container and the apparatus having a pressurization means for the transmission fluid in order to pressurize the transmission fluid to a controlled level and prevent cavitation occurring at areas surrounding the ultrasonic generating means, the outer container having an interior and said pressurization means comprising a hydraulic cylinder connected to the interior of the outer container, ~~the hydraulic cylinder including a piston therein and means for applying a pressure to the piston in the hydraulic cylinder~~ transmission fluid in the outer container.

2. (Original) An apparatus as defined in Claim 1, wherein the treatment container is a pipe through which the liquid can continuously flow and the ultrasonic vibration generating means is at least one piezoelectric ceramic ring surrounding the pipe.

3. (Previously Presented) An apparatus as defined in Claim 2, wherein a number of said ceramic rings are co-axial with the pipe, each ring being located adjacent to another ring.

4. (Original) An apparatus as defined in Claim 3, wherein the transmission fluid is an oil.
5. (Original) An apparatus as defined in Claim 4, wherein a number of modules are connected in parallel with inputs to each of said pipes being connected to an input manifold and outputs of each pipe being connected to an output manifold to form a bank of modules.
6. (Previously Presented) An apparatus as defined in Claim 4, wherein the pipe is stainless steel and extends through the outer container that has a fill hole for the oil and an air vent to vent air from the container as it is filled with the oil and means to seal the air vent once the container is filled with oil.
7. (Original) An apparatus as defined in Claim 6, wherein the ceramic rings are fixed in the outer container by a support attached to the outer container.
8. (Canceled)
9. (Previously Presented) An apparatus as defined in Claim 2 wherein a number of modules are connected in parallel with inputs to each of said pipes being connected to an input manifold and outputs of each pipe being connected to an output manifold to form a bank of modules wherein transmission fluid in the modules is pressurized by a single hydraulic cylinder connected to all of the outer containers, the cylinder being provided with means to apply a predetermined pressure to a piston in the hydraulic cylinder.
10. (Previously Presented) An apparatus as defined in Claim 9, wherein an equal number of modules are provided on each side of a central support structure.
- 11-20. (Canceled)

21. (Previously Presented) An apparatus as defined in Claim 6, wherein a circular groove extends around an inner top surface of the outer container, an end of said air vent opening into said groove.
22. (Previously Presented) An apparatus as defined in Claim 1 further comprising an air cylinder for loading said hydraulic cylinder.
23. (Previously Presented) An apparatus as defined in Claim 1 wherein said ultrasonic generating means generates said ultrasonic vibrations in a frequency range of 22 kHz to 40 kHz.